



**CTEH® Project #40442**  
**West Fertilizer Plant Explosion**  
**Summary of Air Monitoring Results**  
**May 4, 2013 10:00**

This data report discusses real-time air monitoring data collected between 5/3/2013 07:00 and 5/4/2013 7:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for VOCs, and ammonia (NH<sub>3</sub>) using remote-telemetering RAESystems® AreaRAEs.

Tables 1 (below) displays the data summary for AreaRAE instruments, hand-held instruments were not employed during this period. Site maps and charts are available as attachments.

**Table 1**  
**Stationary AreaRAE Monitoring Stations Data Logged**  
**05/03/2013 07:00 to 05/04/2013 07:00**

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	NH3	5731	0	NA	< 1 ppm
	VOC	5731	0	NA	< 0.1 ppm
AR14	NH3	5687	0	NA	< 1 ppm
	VOC	5687	0	NA	< 0.1 ppm
AR16 Mobile Down Wind Unit	NH3	5224	0	NA	< 1 ppm
	VOC	5224	68	0.2 ppm	0.5 ppm
AR17	NH3	5721	0	NA	< 1 ppm
	VOC	5721	0	NA	< 0.1 ppm
AR18	NH3	5687	0	NA	< 1 ppm
	VOC	5687	0	NA	< 0.1 ppm

<sup>1</sup> The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.



CENTER FOR TOXICOLOGY  
AND ENVIRONMENTAL HEALTH, LLC

# Appendix





# Air Monitoring Zone Classifications<sup>1</sup> May 04, 2013

Project: 40442  
Client: OMI  
City: West, TX  
County: McLennan



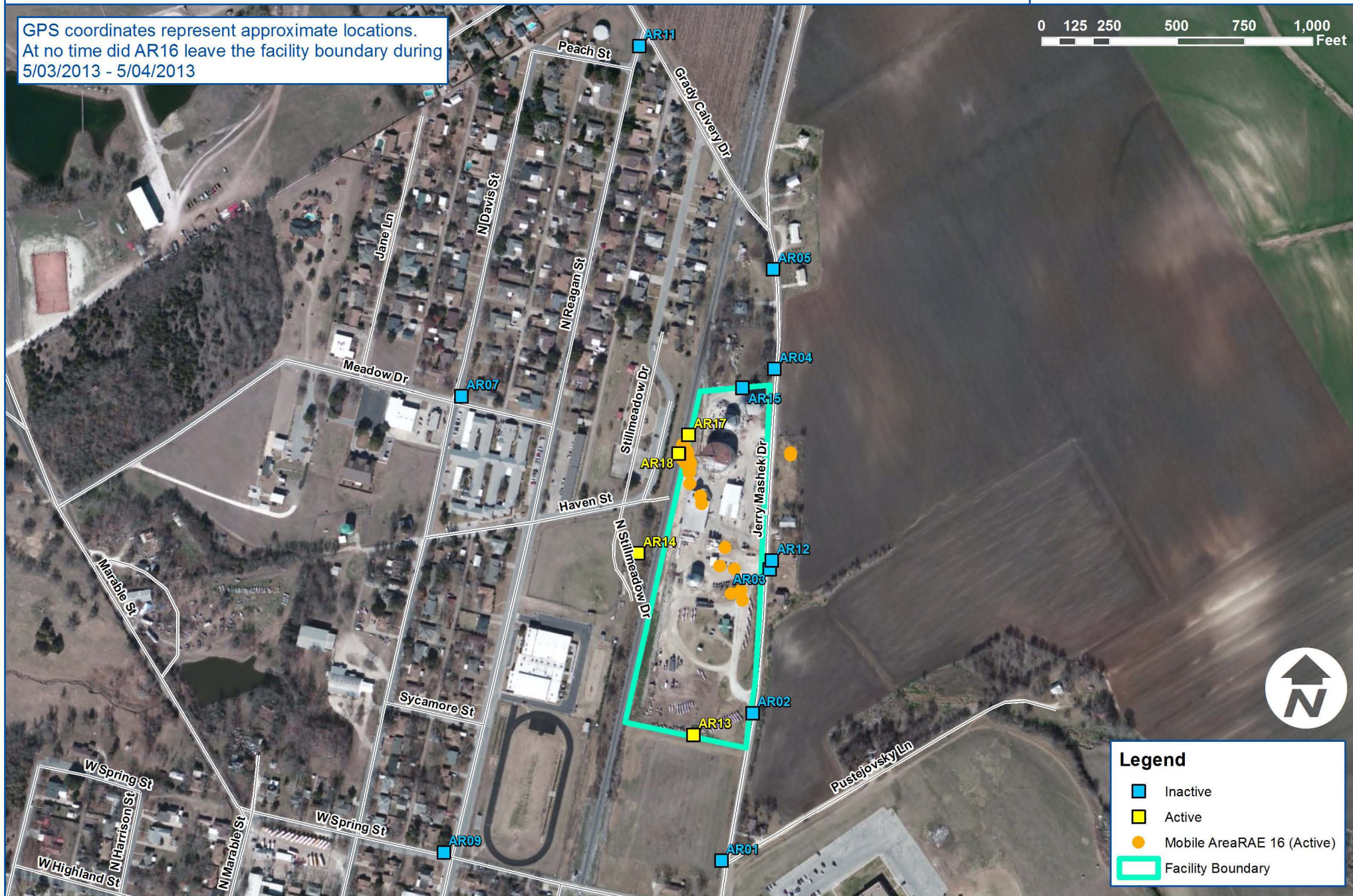


## AreaRAE Monitoring Station Locations 5/04/2013

Project: 40442  
Client: OMI  
City: West, TX  
County: McLennan

GPS coordinates represent approximate locations.  
At no time did AR16 leave the facility boundary during  
5/03/2013 - 5/04/2013

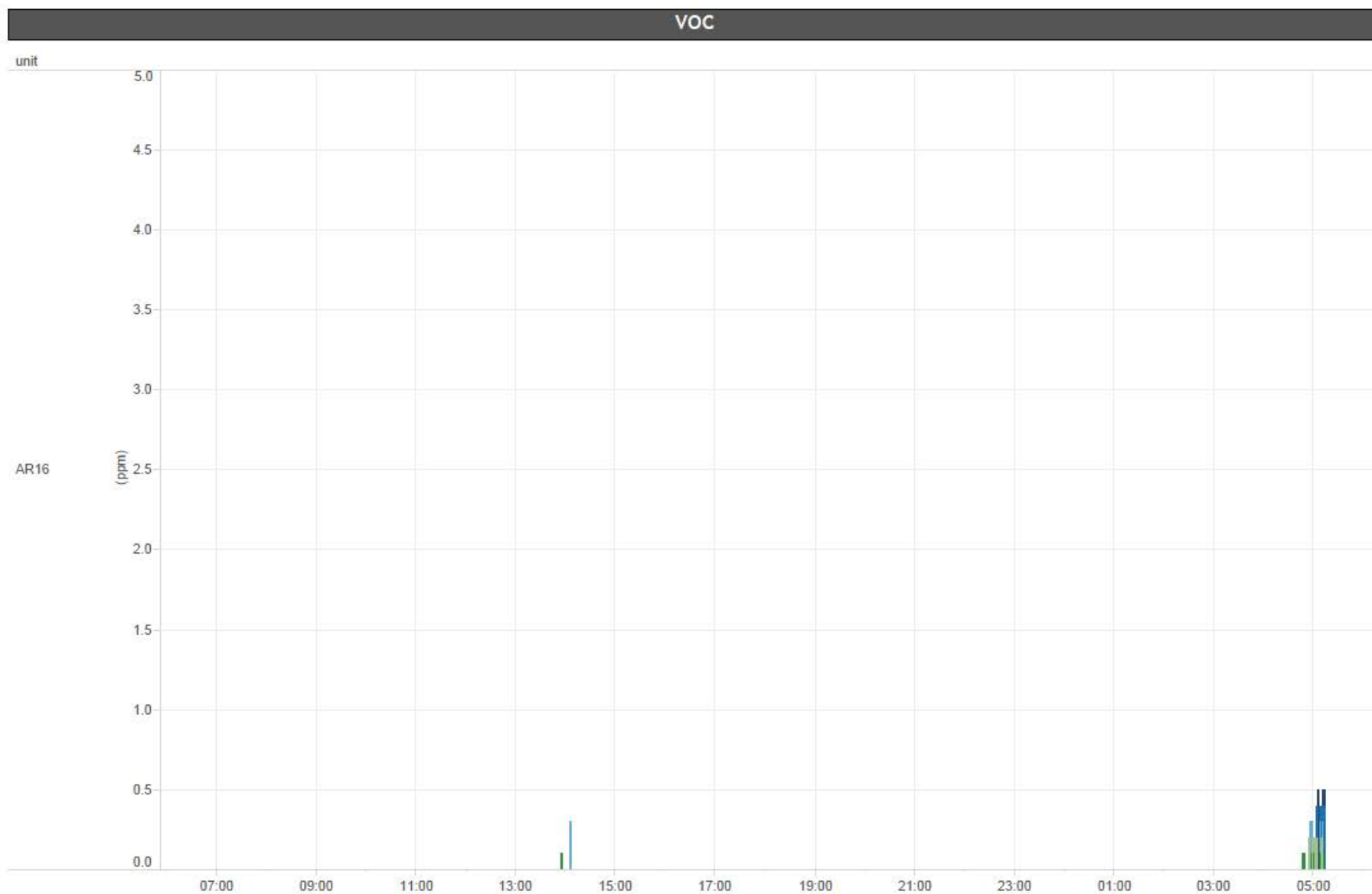
0 125 250 500 750 1,000 Feet



### Legend

- Inactive
- Active
- Mobile AreaRAE 16 (Active)
- Facility Boundary

**AreaRAE Detections**  
**5/03/2013 07:00 to 5/04/2013 07:00**

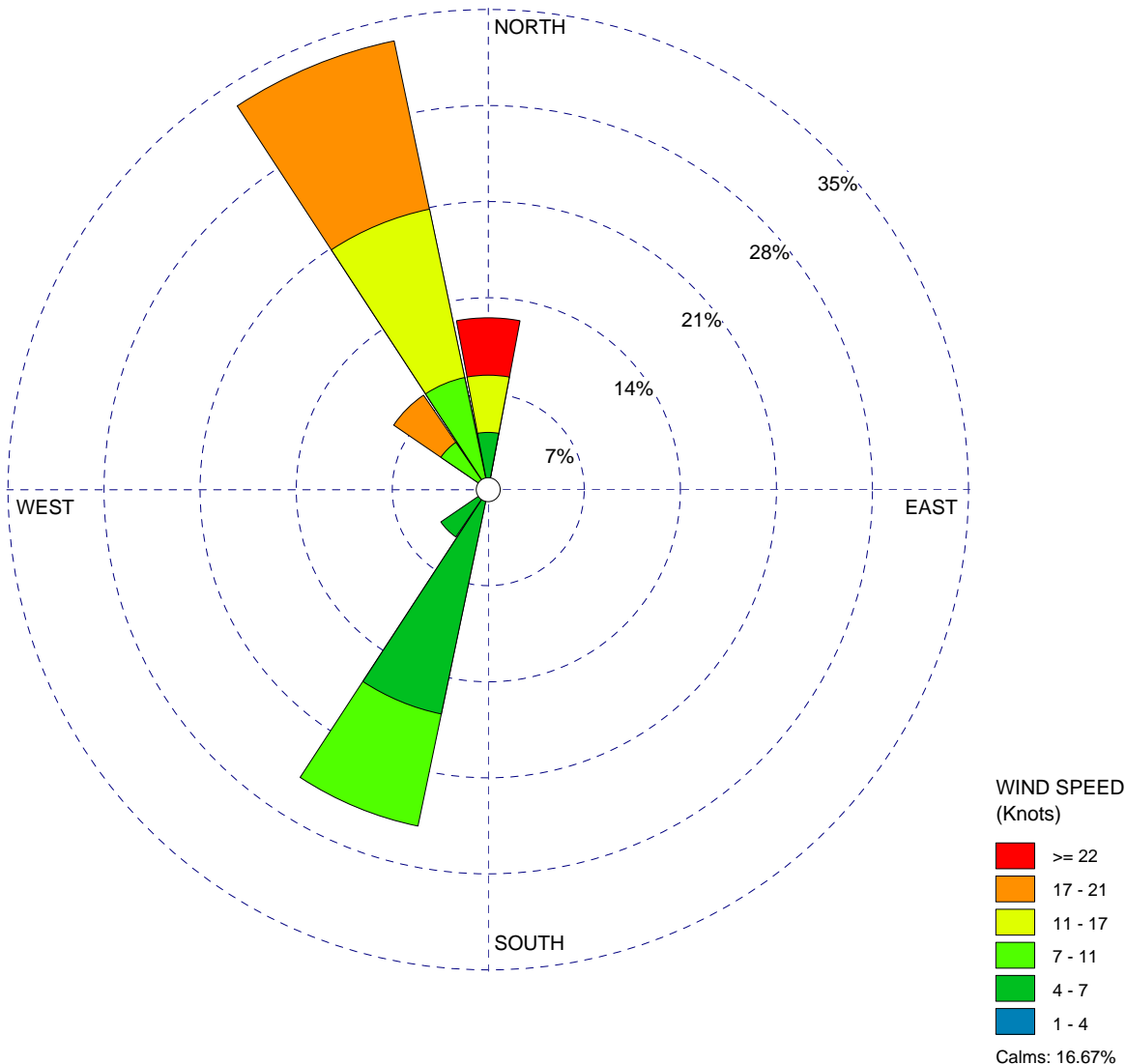


WIND ROSE PLOT:

**Wind Speed and Direction 5/3/2013 07:00 to 5/4/2013 07:00**  
**West, TX**

DISPLAY:

**Wind Speed**  
**Direction (blowing from)**



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

**CTEH**

MODELER:

**Lloyd Long**



CALM WINDS:

**16.67%**

AVG. WIND SPEED:

**9.71 Knots**

PROJECT NO.:

**40442-OMI**